## **CLAIMS**

Please amend the claims as follows.

1. (Currently amended) A belt conditioning apparatus for a press section prior to a dryer section of a papermaking process for a continuous belt having a water impermeable surface and a face-side roll that contacts the water impermeable surface, the belt traveling continuously in-a paper machine, the apparatus comprising: a chemical shower placed proximate to the face-side roll in the press section prior to a dryer section of a papermaking process and on the same side of the face-side roll, the shower operable to spray either one or more types of conditioning chemicals, water, or a combination thereof on the water impermeable surface of the continuous belt or the face-side roll.

one or both the upstream and downstream sides of each roll 58 and 62 is conditioned.

- 2. (Original) The belt conditioning apparatus of Claim 1, wherein the chemical is based on a neutral, acidic or alkaline formula.
- 3. (Original) The belt conditioning apparatus of Claim 1, wherein the chemical is selected from the group consisting of: (i) anionic, nonionic and amphoteric surfactants; (ii) solvents including glycol ethers, D-limonene and low molecular weight alcohols; (iii) aliphatic and aromatic hydrocarbon solvents; (iv) acid-based cleaners including mineral acids, hydrochloric acid, sulfuric acid, organic acids, citric acid, glycolic acid and alkyl sulfonic acids; (v) corrosion inhibitors including filming amines and chelators; (vi) alkaline cleaners including hydroxides, silicates and inorganic phosphates; and (vii) any combination or derivative thereof.
- 4. (Original) The belt conditioning apparatus of Claim 1, wherein the shower is an oscillating shower, a doctor blade shower, a high pressure shower or any combination thereof.

- 5. (Original) The belt conditioning apparatus of Claim 1, wherein the shower operates additionally with water, and which includes a doctor blade positioned operably relative to the high pressure shower.
- 6. (Original) The belt conditioning apparatus of Claim 5, which includes a backing roll placed on the backside of the belt, the backing roll operable to provide an adequate counteracting force against the doctor blade.
- 7. (Original) The belt conditioning apparatus of Claim 1, wherein the shower is placed directly before or directly after the face-side roll with respect to the direction of travel of the belt.
- 8. (Original) The belt conditioning apparatus of Claim 1, wherein the shower is a first shower placed before the face-side roll and which includes a second shower placed after the face-side roll with respect to a direction of travel of the belt.
- 9. (Original) The belt conditioning apparatus of Claim 8, wherein the second shower sprays: (i) the same conditioning chemical; (ii) a different conditioning chemical; or (iii) water onto the water impermeable surface.
- 10. (Original) The belt conditioning apparatus of Claim 1, wherein the face-side roll is a first face-side roll and the shower is a first shower, wherein the belt is contacted by a second face-side roll, and which includes a second shower placed proximate to the second face-side roll.
- 11. (Original) The belt conditioning apparatus of Claim 10, wherein the second shower sprays: (i) the same conditioning chemical; (ii) a different conditioning chemical; or (iii) water onto the water impermeable surface.
- 12. (Original) The belt conditioning apparatus of Claim 1, which includes a face-side driven roll positioned against the water impermeable surface.

- 13. (Original) The belt conditioning apparatus of Claim 12, wherein the face-side driven roll includes at least one feature selected from the group consisting of: (i) being positioned before the face-side roll; (ii) being driven at a different speed than the belt; and (iii) being conditioned with at least one of a doctor blade and a chemical shower.
- 14. (Original) The belt conditioning apparatus of Claim 12, wherein the face-side driven roll is conditioned with a chemical selected from the group consisting of: (i) low molecular weight polyamines; (ii) low molecular weight polyamines in combination with nonionic surfactants including ethoxylated alcohols and cationic surfactants and quaternary ammonium compounds; (iii) aliphatic organic solvents including kerosene, iso-paraffins and mineral oil; (iv) organic solvents in combination with nonionic surfactants including silicone-based surfactants and anionic surfactants including phosphate esters and fatty acid salts; (v) dispersants including naphthalene-formaldehyde condensates, naphthanlene sulfonates and alkanolamides; and (vi) any combination or derivative thereof.
- 15. (Original) The belt conditioning apparatus of Claim 1, which includes a backing roll placed on an opposite side of the belt from the face-side roll, the backing roll creating a press nip with the face-side roll.
- 16. (Original) The belt conditioning apparatus of Claim 1, which includes a doctor blade positioned against the impermeable surface of the belt and a backing roll operable to provide an adequate counteracting force against the doctor blade.
- 17. (Currently amended) A paper machine comprising: a press section operable to mechanically press moisture from a fibrous web; a dryer section operable to evaporate moisture from the web; a continuous belt operable with at least one of the that passes through the press section prior to a dryer section and the dryer section, the belt having a water impermeable surface, a face-side roll in the press section that contacts said water-impermeable surface; and a chemical shower placed proximate to the face-side roll in the

press section and on the same side of the face-side roll, the shower operable to spray either one or more types of conditioning chemicals, water, or a combination thereof on the water impermeable surface or the face-side roll.

- 18. (Original) The paper machine of Claim 17, wherein the fibrous web is of a type selected from the group consisting of: a paper web and a paperboard web.
- 19. (Original) The paper machine of Claim 17, wherein the water impermeable surface is located on a face-side of the belt or on a backside of the belt.
- 20. (Original) The paper machine of Claim 17, which includes a face-side roll that contacts the water impermeable surface, and wherein the shower is located directly before, adjacent to or directly after the face-side roll with respect to a direction of travel of the belt.
- 21. (Original) The paper machine of Claim 17, wherein the chemical is selected from the group consisting of: (i) anionic, nonionic and amphoteric surfactants; (ii) solvents including glycol ethers, D-limonene and low molecular weight alcohols; (iii) aliphatic and aromatic hydrocarbon solvents; (iv) acid-based cleaners including mineral acids, hydrochloric acid, sulfuric acid, organic acids, citric acid, glycolic acid and alkyl sulfonic acids; (v) corrosion inhibitors including filming amines and chelators (EDTA, DPTA); (vi) alkaline cleaners including hydroxides, silicates and inorganic phosphates; and (vii) any combination or derivative thereof.
- 22. (Original) The paper machine of Claim 17, wherein the belt is operable to transfer the web from the press section to the dryer section.
- 23. (Cancelled)
- 24. (Previously presented) A paper machine belt conditioning method comprising the steps of: spraying a conditioning chemical onto a water impermeable surface of a

continuous rotating belt at a location where a fibrous web that travels with the belt has been pulled away from the belt so that deposits: (i) can be removed from the impermeable surface of the belt or (ii) are prevented from accumulating on the belt when the surface is remated with a portion of the fibrous web, which includes spraying the chemical onto the impermeable surface at a place where the surface contacts a face-side roll.

- 25. (Original) The belt conditioning method of Claim 24, which includes supporting the face-side roll from an opposite side of the belt from the roll.
- 26. (Original) The belt conditioning method of Claim 24, which includes spraying the belt immediately before and immediately after of the face-side roll with respect to a direction of travel of the belt.
- 27. (Original) The belt conditioning method of Claim 24, which includes using different chemicals to spray the belt at the input and return sides, respectively, of the face-side roll.
- 28. (Original) The belt conditioning method of Claim 24, which includes spraying the conditioning chemical directly onto the face-side roll.
- 29. (Previously presented) A paper machine belt conditioning method comprising the steps of: spraying a conditioning chemical onto a water impermeable surface of a continuous rotating belt at a location where a fibrous web that travels with the belt has been pulled away from the belt so that deposits: (i) can be removed from the impermeable surface of the belt or (ii) are prevented from accumulating on the belt when the surface is remated with a portion of the fibrous web, which includes doctoring/wiping the belt with at least one member and placing a backing roll behind the belt to provide an adequate counteracting force against the member.
- 30. (Previously presented) A paper machine belt conditioning method comprising the steps of: spraying a conditioning chemical onto a water impermeable surface of a

continuous rotating belt at a location where a fibrous web that travels with the belt has been pulled away from the belt so that deposits: (i) can be removed from the impermeable surface of the belt or (ii) are prevented from accumulating on the belt when the surface is remated with a portion of the fibrous web, which includes spraying the conditioning chemical onto a face-side of the belt at multiple locations.

- 31. (Previously presented) A paper machine belt conditioning method comprising the steps of: spraying a conditioning chemical onto a water impermeable surface of a continuous rotating belt at a location where a fibrous web that travels with the belt has been pulled away from the belt so that deposits: (i) can be removed from the impermeable surface of the belt or (ii) are prevented from accumulating on the belt when the surface is remated with a portion of the fibrous web, wherein the conditioning chemical is a first chemical and which includes the step of spraying a second different conditioning chemical onto the impermeable surface of the belt.
- 32. (Previously presented) A paper machine belt conditioning method comprising the steps of: spraying a conditioning chemical onto a water impermeable surface of a continuous rotating belt at a location where a fibrous web that travels with the belt has been pulled away from the belt so that deposits: (i) can be removed from the impermeable surface of the belt or (ii) are prevented from accumulating on the belt when the surface is remated with a portion of the fibrous web, wherein the conditioning chemical is a first chemical and which includes the step of spraying a second different conditioning chemical onto the belt that aids in removing residue from the first chemical.

- 33. (Previously presented) A paper machine belt conditioning method comprising the steps of: spraying a conditioning chemical onto a water impermeable surface of a continuous rotating belt at a location where a fibrous web that travels with the belt has been pulled away from the belt so that deposits: (i) can be removed from the impermeable surface of the belt or (ii) are prevented from accumulating on the belt when the surface is remated with a portion of the fibrous web, which includes the step of dewatering the impermeable surface with at least one member.
- 34. (Original)The belt conditioning method of Claim 33, wherein the member is selected from the group consisting of: a doctor blade, a felt roll and a suctioning device.